

## UNIVERSITAS NEGERI YOGYAKARTA FACULTY OF MATHEMATICS AND NATURAL SCIENCES DEPARTMENT OF PHYSICS EDUCATION

### PHYSICS STUDY PROGRAM

Colombo St. Number 1 Yogyakarta 55281 Telephone (0274)565411 Ext. 217, fax (0274) 548203 Web: http://fisika.fmipa.uny.ac.id/, E-mail: fisika@uny.ac.id/

### **Bachelor of Physics**

#### **MODULE HANDBOOK**

Module name:	Seismology					
Module level, if applicable:	Undergraduate					
Code:	FSK6270					
Sub-heading, if applicable:	-					
Classes, if applicable:	-					
Semester:	5 <sup>th</sup>					
Module coordinator:	Khafidh Nur Aziz, M.Sc.					
Lecturer(s):	Khafidh Nur Aziz, M.Sc.					
Language:	Bahasa Indonesia					
Classification within the	Elective Course					
curriculum:	License Godise					
Teaching format / class hours per week during the semester:	100 minutes lectures ,120 minutes structured activities, and 120 minutes individual study per week.					
Workload:	Total workload is 90,67 hours per semester which consists of 100 minutes lectures, 120 minutes structured activities, and 120 minutes individual study per week for 16 weeks.					
Credit points:	2 SKS (3.25 ECTS)					
Prerequisites course(s):	Vibration and Waves (FSK6316)					
Course Outcomes	<ul> <li>A. mastering the basics of seismology.</li> <li>B. mastering earthquake mechanism.</li> <li>C. analyze earthquake source mechanisms.</li> <li>D. analyze different tectonic environments from focal mechanisms.</li> </ul>					
Content:	This course discusses history and insight into seismology,					

	seismological instrumentation, seismic waves, earthquake source mechanisms, and focal mechanism.							
	The final mark will be weight as follow:							
		СО	Assessment Object	Assessment Technique	Weight			
Study / exam achievements:	1	CO1, CO2, CO3,	a. Assignment (Individual, Case Study)	Written Test	50%			
		and CO4	b. Mid c. Final Exam		25% 25%			
	Total 100%							
Forms of media:	Board, LCD Projector, Laptop/Computer							
Literature:	<ul> <li>A. Shearer, P.M. 2009. Introduction to Seismology 2nd Edition. Cambridge: Cambridge University Press.</li> <li>B. Aki, K. and Richards, P. G. (2002). Quantitative Seismology, 2nd edn, Sausalito, CA: University Science Books.</li> </ul>							

# **PLO and CO mapping**

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8
CO1								
CO2								
CO3								
CO4					1			